

TJ Pavaritpong

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EDUCATION

University of Illinois Urbana-Champaign

Expected: Dec 2024

B.S. in Statistics & Computer Science; GPA: 3.36

Champaign, IL

Relevant Coursework: Intro to Algorithms & Models of Computation, Computer Architecture, Database Systems, Data Structures, Discrete Structures, Linear Algebra, Multivariable Calculus, Numerical Methods, Statistics & Probability

EXPERIENCE

Agoda

Jan 2023 – Aug 2023

Data Engineer Intern

Bangkok, Thailand

- Upcoming co-op where I will be building data pipelines, creating a performance reporting system for advertisements, and unifying data from different sources onto one platform
- Will be using Scala, SQL, Apache Spark, and Apache Hive

Zipmex

Jun 2022 – Jul 2022

Software Engineer Intern

Bangkok, Thailand

- Refactored old, individually-styled UI components into standardized React/Material-UI components that can be reused across pages to make website look more consistent
- Improved code quality by debugging newly-discovered issues arising from adding stronger type inference with TypeScript to React and Redux code
- Supported the website revamp and light theme release by fixing UI components and styling them to match the new Figma designs for trading/investment-related pages
- Wrote test cases for new pages using Jest

Central Group

Jun 2019 – Aug 2019

Software Engineer Intern

Bangkok, Thailand

- Identified inefficiencies in operations during a tour of supermarkets and warehouses with the operations team and brainstormed possible solutions
- Streamlined warehouse processes in over 200 service points by integrating Scandit's barcode-scanning library into employees' mobile app in Ionic and Angular to allow for bulk-scanning of shipment labels
- Developed features using optical character recognition to allow customers to extract product information from receipts and employees to verify and correct information on shelf tags
- Optimized image-processing settings to improve text recognition of Thai alphabet and numerals

PROJECTS

Illini CC'd | *React, Node.js, MySQL, GCP, Material-UI*

- A website that recommends credit cards to users based on their preferences
- Created the entire front-end UI by myself in React
- Collaborated with other members to design the database schema, scrape credit card info, create REST API endpoints, and host everything on Google Cloud Platform

Openflights Dataset Analyzer | *C++, Catch2*

- Implemented BFS and Dijkstra's algorithm to find the shortest flight itinerary between two airports
- Implemented PageRank to identify the biggest airport hubs in a given region

Blackjack Simulator | *C++, Catch2, Cinder*

- Built a blackjack simulator in C++ and used Cinder to render the 2D graphics

SKILLS

Languages: Python, C++, TypeScript, JavaScript, SQL, HTML, CSS

Frameworks & Libraries: React, Redux, Node.js, Material-UI, NumPy, pandas

Developer Tools: Git, GCP, MongoDB, MySQL